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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.	(Currently	amended)	A	method	for	targeting	interactive	virtual	advertisements,
comprising:									

assigning a plurality of interactive virtual advertisement spots to a program;

assigning one of a plurality of interactive virtual objects to the plurality of interactive virtual advertisement spots, wherein said plurality of interactive virtual objects are dynamic;

generating a retrieval plan; and

providing the retrieval plan to a terminal, wherein the retrieval plan instructs the terminals terminal to select one of the plurality of display in one of the virtual advertisement spots an interactive virtual objects, object selected from a ranked list of the a plurality of interactive virtual objects, wherein said ranked list is determined at least by a measure of effectiveness for each one of said plurality of interactive virtual objects in each one of said plurality of interactive virtual advertisement spots, wherein each one of the plurality of interactive virtual advertisement spots are is in a different spatial location in said program;

allocating delivery bandwidth within an available amount of total bandwidth in a communication channel for the selected one of the plurality of interactive virtual objects via a resource management engine;

delivering the selected one of the plurality of interactive virtual objects via said allocated delivery bandwidth;

receiving a selection of at least one of the plurality of interactive virtual objects;

logging the received selection of said at least one of the plurality of interactive virtual objects; and

billing an advertiser of said selected at least one of the plurality of interactive virtual objects in response to said logged selection.

(Currently amended) The method of claim 1, wherein generating the retrieval plan comprises:

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assigning the terminal to one or more groups;

designating a unique group mask for one or more of the groups; and

assigning <u>each of the</u> one or more of the groups to one <u>or more</u> of the plurality of interactive virtual objects, wherein the group mask indicates whether the terminal displays a particular interactive object.

3. (Original) The method of claim 2, wherein the step of assigning the terminal to one or more groups comprises:

generating group assignment rules;

delivering group assignment rules to the terminal;

storing the group assignment rules at the terminal; and

determining one or more group assignments based on the group assignment rules and data related to the terminal

4. (Currently amended) The method of claim 3, wherein the data related to the terminal includes one or more of Area of Dominant Influence (ADI), zip code[[+4]], demographic data and programs watched data, virtual objects viewed, on-screen questionnaires and characteristics imported from marketing databases:

the method further comprising updating the group assignments being updated to reflect changes in the ADI, zip code[[+4]], the demographic data, the programs watched data, the virtual objects viewed, the on-screen questionnaires, and the characteristics imported from marketing databases.

- (Currently amended) The method of claim 1, <u>further comprising periodically sending</u>
 wherein the retrieval plan is sent periodically to the terminal, and wherein the group assignment
 rules are periodically sent to terminal.
- 6. (Currently amended) A method of targeting interactive virtual objects, comprising:

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providing a program containing a plurality of interactive virtual object locations to a terminal:

providing one_or_more_of a plurality of interactive virtual objects for each one of the plurality of the interactive virtual object locations to the terminal, wherein said one or more of the plurality of interactive virtual objects are dynamic and selected from a ranked list of the plurality of interactive virtual objects, wherein_said ranked list is determined at least by a measure of effectiveness for each one of said plurality of interactive virtual objects in each one of said plurality of interactive virtual object locations, wherein_and_each one of the plurality of interactive virtual advertisement_object locations are_is_in a different spatial_location in said program;

providing at least one alternate interactive virtual object for at least one of the plurality of interactive virtual object locations:

generating providing a retrieval plan-at a user's to the terminal, wherein the retrieval plan designates, which of the for one or more of the plurality of interactive object locations, displays an which of the provided one or more alternate interactive virtual-object objects to display:

allocating delivery bandwidth within an available amount of total bandwidth in a communication channel for the provided plurality of interactive virtual objects and the at least one alternate interactive virtual object via a resource management engine:

delivering the provided plurality of interactive virtual objects and the at least one alternate interactive virtual object via said allocated delivery bandwidth:

receiving a selection of at least one of the plurality of interactive virtual objects;

logging the received selection of said at least one of the plurality of interactive virtual objects; and

billing an advertiser of said selected at least one of the plurality of interactive virtual objects in response to said logged selection.

(Original) The method of claim 6, wherein the program is a television program.

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8. (Original) The method of claim 6, wherein the program is one of an advertisement, an

electronic program guide, and an Internet web page.

9. (Previously amended) The method of claim 6, wherein at least one of the plurality of

interactive virtual object locations is fixed in position across frames of the program.

10. (Previously amended) The method of claim 6, wherein at least one of the plurality of

interactive virtual object locations moves spatially in the program with time.

11. (Original) The method of claim 6, further comprising providing at least one non-

interactive virtual object.

12-14. (Canceled)

15. (Currently amended) The method of claim 1365, further comprising generating the group

assignment matrix, wherein the predefined groups within one of the target categories groups-are

defined based on characteristics of users.

16. (Original) The method of claim 15, wherein the characteristics include user demographic

information

17. (Original) The method of claim 15, wherein the characteristics include user entered

information.

18. (Original) The method of claim 15, wherein the characteristics include programs

watched data.

19. (Original) The method of claim 15, wherein the characteristics include interactive virtual

objects watched data.

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- (Original) The method of claim 15, wherein the characteristics include user activation of the interactive virtual objects.
- 21. (Currently amended) The method of claim 426, wherein the terminal is a television set top terminal.
- 22. (Currently amended) The method of claim 426, wherein the terminal is incorporated into one of a television, a personal computer and a PDA with video viewing capabilities.
- 23. (Currently amended) The method of claim 426, wherein the television-terminal is coupled to a satellite television receiver.
- (Canceled)
- 25. (Currently amended) The method of claim 126, wherein the retrieval plan is <u>periodically</u> provided with the transmission of the program and <u>periodically in a transmission</u> to the terminal, the terminal storing the retrieval plan in a memory.
- 26. (Currently amended) A method of targeting interactive virtual objects to terminals, comprising:

creating a package of targeted plurality of interactive virtual objects, wherein said plurality of interactive virtual objects are dynamic;

providing the package to one or more of the terminals;

generating a group assignment matrix, wherein the group assignment matrix assigns terminals to groups;

generating a retrieval plan;

storing the retrieval plan at one or more of the terminals;

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providing receiving a program, a plurality of interactive virtual objects, and a retrieval plan at a terminal-to-one or more of the terminals, wherein the program including includes a plurality of interactive virtual object locations, wherein the retrieval plan designates one or more of said plurality of interactive virtual objects to be displayed during a display of the program selected from a ranked list of said plurality of interactive virtual objects, wherein saidthe ranked list is determined at least by a measure of effectiveness for each one of said plurality of interactive virtual object locations, wherein and each one of the plurality of interactive virtual advertisement object locations are is in a different spatial location in said program; and displaying one or more of the interactive virtual objects in one or more of the interactive virtual object locations of the program according to the retrieval plan.

allocating delivery bandwidth within an available amount of total bandwidth in a communication channel for the designated interactive virtual objects via a resource management engine;

delivering the designated interactive virtual objects via said allocated delivery bandwidth;

receiving a selection of at least one of the designated interactive virtual objects;

logging the received selection of said at least one of the designated interactive virtual objects; and

billing an advertiser of said selected at least one of the designated interactive virtual objects in response to said logged selection.

27. (Canceled)

28. (Currently amended) The method of claim 2726, wherein the retrieval stepdisplaying, comprises:

comparing the a group assignment matrix to the retrieval plan, wherein the group assignment matrix assigns the terminal to a targeted user group; and

selecting an interactive virtual object for display based on the comparison.

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 (Currently amended) The method of claim 26, wherein one or more of said plurality of virtual object locations contains an interactive virtual object, further comprising:

linking a terminal selecting the at least one designated displayed interactive virtual object to an alternate program.

- (Currently amended) The method of claim 29, wherein the alternative-alternate program comprises an Internet web site.
- (Currently amended) The method of claim 2628, <u>further comprising wherein the step of</u> generating the group assignment matrix <u>including</u>, comprises:

generating receiving group assignment rules;

delivering group assignment rules to terminal; and

determining one or more group assignments at one or more of the terminalsthe terminal based on the group assignment rules and individual terminal data and or terminal group data.

- 32. (Original) The method of claim 31, wherein the individual terminal data, comprises one or more of viewer demographic data, programs watched data, virtual objects viewed data, onscreen questionnaires, and characteristics imported from marketing databases, and wherein the terminal group data, comprises one or more ADI, zip code, and geographical data.
- (Currently amended) The method of claim 31, wherein the group assignment rules are stored in-one or more of the terminal[[s]].
- 34. (Currently amended) A terminal for targeting a plurality of interactive virtual objects, comprising:

a eonnector that network interface configured to receive[[s]] the a plurality of interactive virtual objects and a plurality of interactive virtual object locations and metadata—via delivery bandwidth allocated—within an available amount of total-bandwidth in a communication-channel

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by a resource management engine, wherein said plurality of interactive virtual objects are dynamic:

an interactive virtual objects extractor <u>processor</u> coupled to the connector that <u>network</u> <u>interface and configured to extract[[s]]</u> the plurality of interactive virtual objects, the plurality of interactive virtual object locations and the metadata;

a storage processor coupled to the extractor that configured to determine[[s]] which of the extracted plurality of interactive virtual objects are targeted to the terminal and save[[s]] the extracted targeted interactive virtual objects in a memory; and

an interactive virtual object selector processor coupled to the storage processor that and configured to determine[[s]] an interactive virtual object placement for one or more stored saved interactive virtual objects selected from a ranked list of said plurality of interactive virtual objects, wherein said ranked list is determined at least by a measure of effectiveness for each one of said plurality of interactive virtual object in each one of said plurality of interactive virtual object locations, wherein and each one of the plurality of interactive virtual advertisement object locations are is in a different spatial location in a program, ; and

a computer readable memory for logging a received selection of at least one of the plurality of interactive virtual objects, wherein said logged selection is used for billing an advertiser of said selected at least one of the plurality of interactive virtual objects.

- 35. (Currently amended) The terminal of claim 34, wherein the plurality of interactive virtual objects are received with programming content of the program, and wherein the extractor processor is configured to extract[[s]] the plurality of interactive virtual objects from the programming content.
- (Currently amended) The terminal of claim 34, wherein the plurality of interactive virtual objects are received independently of programming content of the program.
- 37. (Previously amended) The terminal of claim 36, wherein the plurality of interactive virtual objects are received over the Internet.

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38. (Original) The terminal of claim 34, wherein the terminal is a terminal in a television

program delivery system.

39. (Original) The terminal of claim 38, wherein the terminal is a set top terminal.

40. (Original) The terminal of claim 38, wherein the terminal is a television.

41. (Original) The terminal of claim 34, wherein the terminal is one of a personal computer,

a personal data assistant, and a wireless telephone.

42. (Currently amended) The terminal of claim 34, further comprising a placement log

 $\underline{\text{coupled to the selector processor that logs}}\,\underline{\text{wherein the selector processor is further configured to:}}$

log the placement of an interactive virtual object and further logs an interactive response

to the interactive virtual object in the memory, and

_____wherein the placement and the response are stored in the memory, and wherein the

selector processor-use[[s]] the placement and the response in determining placements of future

interactive virtual objects.

43-45. (Canceled)

46. (Currently amended) The system of claim 4369, wherein the plurality of interactive

virtual objects are delivered provided to the terminal by one of a cable television system, a

wireless broadcast system, a satellite broadcast system, a wired data network, a wireless PCS network, and a terrestrial television broadcast network.

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47. (Canceled)

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48. (Currently amended) The system of claim 4369, further comprising an interactive virtual object retrieval plan, wherein the plurality of interactive virtual objects and the retrieval plan are delivered from the insertion center(through the network with the program.

49. (Currently amended) The system of claim 48, wherein the one or more terminal network interfaces are further emprising configured to receive replacement interactive virtual objects and a replacement interactive virtual object retrieval plan, wherein the replacement interactive virtual objects and the replacement retrieval plan are delivered from the operations local insertion center.

50. (Currently amended) The system of claim 4369, wherein an interactive virtual object of the plurality of interactive virtual objects, comprises:

an interactive virtual object identifier;

interactive virtual object placement rules, wherein the rules provide guidance to the terminal in managing insertion of interactive virtual objects into the program content;

an-interactive virtual object digital module, wherein-the module comprises-a digital file representation of the interactive virtual object; and

an interactive virtual object trigger action that defines an action to be taken upon triggering of the virtual object at the terminal.

51. (Original) The system of claim 50, wherein the interactive virtual object further comprises a virtual object applet that provides software capable of initiation by a source external to the terminal.

52. (Original) The system of claim 50, wherein the interactive virtual object trigger action initiates an interactive request to a location external to the terminal.

53. (Original) The system of claim 52, wherein the location external to the system further comprises:

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an interactive virtual object management center; and

an interactive virtual object servicing center coupled to the interactive virtual object

management center, wherein the management center provides interactive virtual object response management guidelines to the servicing center, and wherein the guidelines determine an

appropriate response based on receipt of an interactive request from the terminal.

54. (Currently amended) The system of claim 4369, wherein the terminal further comprises:

an interactive virtual object extractor that extracts interactive virtual objects from data

received at the terminal;

an interactive virtual object location detector processor, coupled to the extractor, that

determines the allowable content locations for the plurality of interactive virtual objects; and

an interactive virtual object insertion processor, coupled to the selector processor, that

inserts the selected interactive virtual objects into the allowable content locations.

55. (Original) The system of claim 54, wherein the terminal further comprises a storage

management processor coupled to the extractor, wherein the management processor uses an

interactive virtual object retrieval plan to determine which received interactive virtual objects are

to be stored at the terminal.

56. (Currently amended) The system of claim 4369, wherein the plurality of interactive

virtual objects are selectable by a user at the terminal.

57. (Currently amended) The system of claim 4356, wherein the an interactive selection by

the user is processed automatically by the terminal.

58. (Canceled)

59. (Currently amended) A method of targeting a plurality of interactive virtual objects to

terminals, comprising:

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creating a package of a plurality <u>targeted-of</u> interactive virtual objects, wherein said plurality of interactive virtual objects are dynamic;

providing the package to one or more of thea plurality of terminals;

generating a group assignment matrix, wherein the group assignment matrix assigns the terminals to groups;

generating a retrieval plan;

providing a program to one or more of the terminals, the program including a plurality of interactive virtual object locations, wherein the retrieval plan designates one or more of the plurality of interactive virtual objects to be displayed in the plurality of interactive virtual object locations during a display of the program, wherein said plurality of interactive virtual objects are selected from a ranked list of the plurality of interactive virtual objects, wherein said ranked list is determined at least by a measure of effectiveness for each one of said plurality of interactive virtual objects in each one of said plurality of interactive virtual object locations, wherein and each one of the plurality of interactive virtual advertisement object locations are is in a different spatial location in said program.

allocating delivery bandwidth within an available amount of total bandwidth in a communication channel for the designated plurality of interactive virtual objects via a resource management engine;

delivering the designated plurality of interactive virtual objects via said allocated delivery bandwidth; and

receiving a selection of at least one of the designated plurality of interactive virtual objects;

logging the received selection of said at least one of the designated plurality of interactive virtual objects; and

billing an advertiser of said selected at least one of the designated plurality of interactive virtual objects in response to said logged selection.

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60. (Currently amended) The method of claim 59, wherein one or more of at least one of said plurality of interactive virtual objects includes triggers that initiate a signal from the terminals, the method further comprising:

receiving a trigger from one of the terminals;

retrieving an interactive virtual object trigger action in response to receipt of the trigger;

determining if that the interactive virtual object trigger action requires initiation of an interactive request.

61. (Currently amended) The method of claim 60, wherein the interactive virtual object trigger action requires initiation of the interactive request, the method further comprising:

sending the interactive request to the terminal which sent the trigger; awaiting an interactive response from the terminal which sent the trigger; and initiating an interactive action based on the interactive response.

- 62. (Canceled)
- 63. (Currently amended) The method of claim 59, wherein one or more of said plurality of virtual object locations contains an interactive virtual object, further comprising:

linking a terminal selecting the at least one designated interactive virtual object to an alternate program.

- 64. (Original) The method of claim 63, wherein the alternative program comprises an Internet web site.
- 65. (New) The method of claim 6 further comprising providing a group assignment matrix to the terminal, wherein:

the group assignment matrix classifies the terminal into one or more different predefined groups within each of one or more target user categories, and

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with a respective one of the interactive objects.

the retrieval plan designates which of the provided one or more interactive objects to display in the one or more interactive object locations by associating the target categories and the predefined groups with the one or more interactive objects and the one or more interactive object locations.

66. (New) The method of claim 65, wherein generating the retrieval plan comprises: associating one of the target user categories with one of the interactive object locations; associating each predefined group within the associated one of the target user categories

67. (New) The method of claim 6, wherein the ranked list is determined by:

scoring a compatibility of program content surrounding a first interactive virtual object location of the interactive virtual object locations with a targeted group of users.

scoring compatibilities of each of the plurality of interactive virtual objects with the targeted group of users; and

ranking each of the plurality of interactive virtual objects displayed in the first one interactive virtual object location based on combining the scoring of the program content and the scoring of each interactive virtual object.

68. (New) The method of claim 67, wherein the ranked list is further determined by:

scoring a compatibility of program content surrounding a second interactive virtual object location of the interactive virtual object locations with the targeted group of users, and

ranking different pairs of the plurality of interactive virtual objects displayed in the first and second interactive virtual object locations and based on combining the scoring of the program content surrounding the first interactive virtual object location, the scoring of the program content surrounding the second interactive virtual object location, and the scoring of each interactive virtual object.

69. (New) A system comprising:

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an operations center including a network interface and one or more processors configured

to:

provide, through a network, a program containing a plurality of interactive virtual

object locations to a terminal;

provide one or more of a plurality of interactive virtual objects for each one of the

.

plurality of the interactive virtual object locations to the terminal, wherein said one or

more of the plurality of interactive virtual objects are selected from a ranked list of the

plurality of interactive virtual objects, wherein said ranked list is determined at least by a

measure of effectiveness for each one of said plurality of interactive virtual objects in

each one of said plurality of interactive virtual object locations, and each one of the

plurality of interactive virtual object locations is in a different spatial location in said

program;

provide a retrieval plan to the terminal, wherein the retrieval plan designates, for

one or more of the plurality of interactive object locations, which of the provided one or

more interactive virtual objects to display; and

a terminal comprising:

one or more terminal network interfaces configured to receive the program, the

plurality of interactive virtual objects, and the retrieval plan;

an interactive virtual objects extractor processor coupled to the terminal network interfaces and configured to extract the plurality of interactive virtual objects, the

plurality of interactive virtual object locations and the retrieval plan:

pluranty of interactive virtual object locations and the retrieval plan,

a storage processor coupled to the extractor configured to determine which of the

extracted plurality of interactive virtual objects are targeted to the terminal and save the

extracted targeted interactive virtual objects in a memory; and

an interactive virtual object selector processor coupled to the storage processor

configured to determine an interactive virtual object placement for the one or more stored

interactive virtual objects.

70.

(New) The system of claim 69, wherein the selector processor is further configured to:

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log the placement of an interactive virtual object and an interactive response to the interactive virtual object in the memory, and

communicate the placement and the response to the operation center.

71. (New) The system of claim 69 wherein each different spatial location in said program is a

different location within a scene of the program.

72. (New) The system of claim 69 wherein each different spatial location in said program is a

different location within a frame of the program.

73. (New) The method of claim 1 wherein each different spatial location in said program is a

different location within a scene of the program.

74. (New) The method of claim 1 wherein each different spatial location in said program is a

different location within a frame of the program.

75. (New) The method of claim 6 wherein each different spatial location in said program is a

different location within a scene of the program.

76. (New) The method of claim 6 wherein each different spatial location in said program is a

different location within a frame of the program.

77. (New) The method of claim 26 wherein each different spatial location in said program is

a different location within a scene of the program.

78. (New) The method of claim 26 wherein each different spatial location in said program is

a different location within a frame of the program.

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79. (New) The terminal of claim 34 wherein each different spatial location in said program is a different location within a scene of the program.

80. (New) The terminal of claim 34 wherein each different spatial location in said program is

a different location within a frame of the program.

81. (New) The method of claim 59 wherein each different spatial location in said program is

a different location within a scene of the program.

82. (New) The method of claim 59 wherein each different spatial location in said program is

a different location within a frame of the program.

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